

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H23308

Luminaire Tested: **H802HP-810WB**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23308
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H802HP-810WB
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH WHITE BAFFLE
0 DEG AXIS IS PARALLEL TO LAMPS
Light Source: (2) F18DTT 18 WATTS 1250 LUMENS EACH
DOUBLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

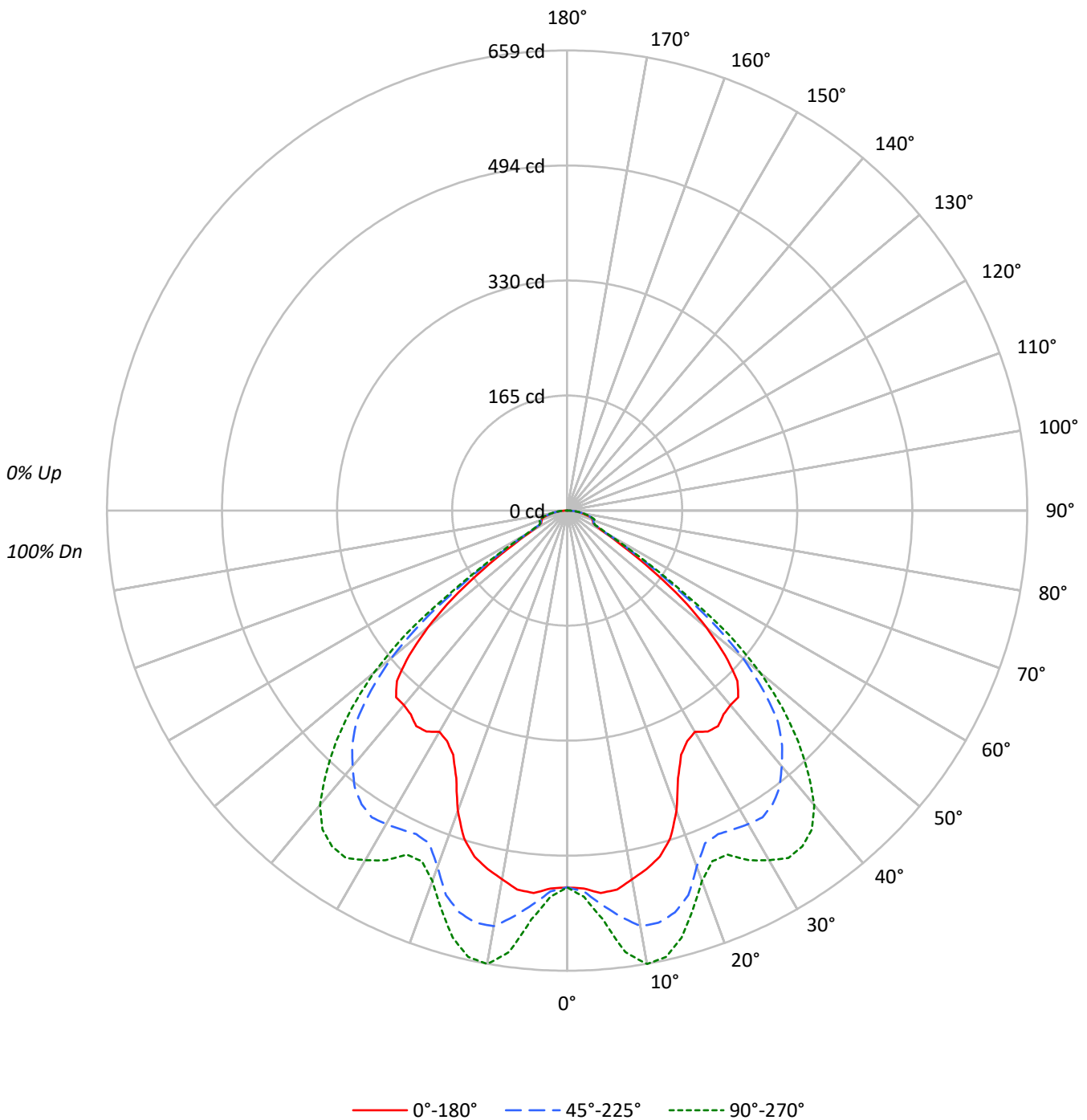
Summary

Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1325.0 lumens
Efficiency: 53.0%
Efficacy: 26.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.6 / 1.48
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	63	63	63	63	62	62	62	62	59	59	59		56	56	56		54	54	54	53
1	59	57	55	53	57	55	54	52	53	52	51		51	50	49		49	49	48	47
2	54	51	48	45	53	50	47	45	48	46	44		46	44	43		45	43	42	41
3	50	45	42	39	49	45	41	38	43	40	38		42	39	37		40	38	37	36
4	46	41	37	34	45	40	36	34	39	36	33		38	35	33		37	34	32	31
5	43	37	33	30	42	36	32	29	35	32	29		34	31	29		33	31	29	28
6	40	34	29	26	39	33	29	26	32	29	26		31	28	26		31	28	25	24
7	37	31	26	23	36	30	26	23	29	26	23		29	25	23		28	25	23	22
8	35	28	24	21	34	28	24	21	27	23	21		26	23	21		26	23	21	20
9	32	26	22	19	32	25	22	19	25	21	19		24	21	19		24	21	19	18
10	30	24	20	17	30	24	20	17	23	20	17		23	19	17		22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.3	4.2	2.2
10°-20°	162.7	12.3	6.5
20°-30°	231.0	17.4	9.2
30°-40°	309.1	23.3	12.4
40°-50°	313.5	23.7	12.5
50°-60°	161.6	12.2	6.5
60°-70°	44.5	3.4	1.8
70°-80°	34.9	2.6	1.4
80°-90°	12.4	0.9	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	448.9	33.9	18.0
0°-40°	758.0	57.2	30.3
0°-60°	1233.1	93.1	49.3
0°-90°	1325.0	100.0	53.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1325.0	100.0	53.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	550	556	566	582	588	52
15°	513	543	596	627	633	143
25°	386	444	511	543	544	182
35°	377	449	513	555	587	233
45°	345	378	427	449	468	256
55°	147	163	179	185	197	134
65°	41	41	42	43	43	43
75°	33	33	34	35	36	33
85°	11	11	11	12	12	11
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.6	539.6	539.6	539.6	539.6
2.5°	541.6	543.8	545.8	548.6	553.6
5°	549.8	556.1	566.2	582.5	587.6
7.5°	547.3	560.8	586.3	615.8	637.7
10°	536.1	554.6	604.3	637.9	659.3
12.5°	525.8	546.8	604.7	644.2	654.7
15°	513.1	542.8	595.8	626.6	633.2
17.5°	491.6	533.0	577.4	599.5	598.7
20°	457.4	500.2	542.5	568.0	564.2
22.5°	414.5	463.6	515.7	544.3	543.4
25°	385.8	444.4	511.3	543.4	543.6
27.5°	372.3	439.0	514.7	553.6	564.7
30°	365.8	438.3	518.5	558.6	578.1
32.5°	375.1	451.0	520.8	561.8	589.7
35°	376.8	449.2	513.2	555.2	587.0
37.5°	368.0	429.8	499.8	540.6	575.5
40°	363.6	413.7	478.0	514.6	550.6
42.5°	362.6	400.2	455.7	483.3	511.3
45°	344.8	377.6	426.6	449.4	467.9
47.5°	306.9	345.0	381.1	406.5	417.9
50°	260.1	301.3	328.2	350.7	360.7
52.5°	207.1	234.0	261.0	277.6	291.8
55°	146.8	162.9	179.2	184.6	196.8
57.5°	92.0	99.2	112.4	113.0	120.7
60°	57.5	60.5	64.5	65.7	68.2
62.5°	45.0	45.1	44.9	45.7	45.0
65°	40.7	41.2	41.9	42.9	42.9
67.5°	39.9	40.2	40.8	41.6	41.9
70°	38.6	39.4	40.2	41.5	42.4
72.5°	37.8	38.1	38.9	40.0	40.4
75°	32.7	33.2	34.1	35.3	35.6
77.5°	25.9	26.7	27.8	28.8	30.2
80°	21.4	21.7	22.2	23.1	23.4
82.5°	16.0	16.4	16.9	17.6	17.7
85°	10.7	11.0	11.4	11.8	12.0
87.5°	5.5	5.6	5.9	6.2	6.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)